**BACKGROUND**

Two families of mammalian lectin-like adhesion molecules bind glycoconjugate ligands in a sialic acid-dependent manner: the selectins and the sialoadhesins. The sialic acid-binding immunoglobulin superfamily lectins, designated siglecs or sialoadhesins, are immunoglobulin superfamily members recognizing sialylated ligands. Siglec-5 binds equally to α2,3-linked and α2,6-linked sialic acid. There exist four isoforms of hSiglec-5 possessing three (hSiglec-5-3L and -3C) or four (hSiglec-5-4L and -4S) extracellular domains linked to long (hSiglec-5-3L and -4L) or short (hSiglec-5-4S) cytoplasmic tails or existing as a soluble isoform (hSiglec-5-3C). Siglec-5 is expressed by monocytes and neutrophils, but is absent from leukemic cell lines representing early stages of myelomonocytic differentiation. Siglec-5 may play a role in the diagnosis and monitoring of acute myeloid leukemia (AML).

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SIGLEC5 (human) mapping to 19q13.41.

**SOURCE**

Siglec-5 (EE18W) is a mouse monoclonal antibody raised against an extracellular domain of Siglec-5 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**APPLICATIONS**

Siglec-5 (EE18W) is recommended for detection of Siglec-5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with BLCAM, CD33, Siglec-7 or Siglec-9.

Suitable for use as control antibody for Siglec-5 siRNA (h): sc-61549, Siglec-5 shRNA Plasmid (h): sc-61549-SH and Siglec-5 shRNA (l) Lentiviral Particles: sc-61549-V.

Molecular Weight of Siglec-5 monomer: 70 kDa.

Molecular Weight of Siglec-5 dimer: 140 kDa.

Positive Controls: AML-193 whole cell lysate: sc-364182 or HL-60 whole cell lysate: sc-2209.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

**STORAGE**

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.